```
1 AACAATTGCC GCGAATTCGG CACGAGATGA AATCTAGTTG TTTAAAAGCG
   51 TGTAGCACCT CCTCCCTCTC TCTTACTCCT GCTCTCACCA TGTGAGACGC
      CTCGCTCCCC CTTTGCCTTT CACCAGGATT GGAAGCTTCC TGAGGCCTCC
  151 CCAGAAGCAG AAGCTGCTAT GCTTCTTGTA CAGTCTGTAG AGCTATTAGC
  201 CAGTTAAACC CATTTCCTTC ATAAATTTCC CAGTCTCAGG TATTTCTTTT
  251 TAGCAATTTG AGAATGAACT AATACACAGA CAGAGAGCCA GGAGATGGAA
  301 ATCCCAAGGT GCTTTCCTGC TGTCTTCCAG TCTCCTGCTG GTGTCTCCCA
      GTGTCTCAAT TCCACCAGAA ACCAGAAATA AAAAGAATCC CACTGATGTG
       GTACATAGAA GCCACTCTCT TGGGATGTCA AACAGGATAA AGAAGAATGG
      AAAGCAAATC CTCATGGGTC ATCAGACTGG GGTTTCTGAG CATGGATTCA
      ACCATCCCAG TCTTGGGTAC AGAACTGACA CCAATCAACG GACGTGAGGA
  551 GACTCCTTGC TACAAGCAGA CCCTGAGCTT CACGGGGCTG ACGTGCATCG
  601 TTTCCCTTGT CGCGCTGACA GGAAACGCGG TTGTGCTCTG GCTCCTGGGC
  651 TGCCGCATGC GCAGGAACGC TGTCTCCATC TACATCCTCA ACCTGGTCGC
  701 GGCCGACTTC CTCTTCCTTA GCGGCCACAT TATATGTTCG CCGTTACGCC
      TCATCAATAT CCGCCATCCC ATCTCCAAAA TCCTCAGTCC TGTGATGACC
      TTTCCCTACT TTATAGGCCT AAGCATGCTG AGCGCCATCA GCACCGAGCG
      CTGCCTGTCC ATCCTGTGGC CCATCTGGTA CCACTGCCGC CGCCCCAGAT
  901 ACCTGTCATC GGTCATGTGT GTCCTGCTCT GGGCCCTGTC CCTGCTGCGG
  951 AGTATCCTGG AGTGGATGTT CTGTGACTTC CTGTTTAGTG GTGCTGATTC
 1001 TGTTTGGTGT GAAACGTCAG ATTTCATTAC AATCGCGTGG CTGGTTTTTT
 1051 TATGTGTGGT TCTCTGTGGG TCCAGCCTGG TCCTGCTGGT CAGGATTCTC
 1101 TGTGGATCCC GGAAGATGCC GCTGACCAGG CTGTACGTGA CCATCCTCCT
      CACAGTGCTG GTCTTCCTCC TCTGTGGCCT GCCCTTTGGC ATTCAGTGGG
 1151
 1201 CCCTGTTTC CAGGATCCAC CTGGATTGGA AAGTCTTATT TTGTCATGTG
1251 CATCTAGTTT CCATTTTCCT GTCCGCTCTT AACAGCAGTG CCAACCCCAT
1301 CATTTACTTC TTCGTGGGCT CCTTTAGGCA GCGTCAAAAT AGGCAGAACC
1351 TGAAGCTGGT TCTCCAGAGG GCTCTGCAGG ACACGCCTGA GGTGGATGAA
1401 GGTGGAGGGT GGCTTCCTCA GGAAACCCTG GAGCTGTCGG GAAGCAGATT
1451 GGAGCAGTGA GGAAGAACCT CTGCCCTGTC AGACAGGACT TTGAGAGCAA
1501 TGCTGCCCTG CCACCCTTGA CAATTATATG CATTTTTCTT AGCCTTCTGC
1551 CTCAGAAATG TCTCAGTGGT CCCTCAAGGT CTTCGAATAG ATGTTTATCT
1601 AACCTGACAG TTGCAGTTTT CACCCATGGA AAGCATTAGT CTGACAGTAC
1651 AATGTTTGGA TTCTCCTTGA TATTACCAAT ACATTTTCCC TGTTATCTTG
1701 CACTGAATCT TTCCTACTGA ACACTTTTTC TGCACTTTTC ATTGTAATAA
1751 AAGGAGTTGC TGTCCACAAC CCTAAAACTC TTCTTTATAC TTGTTTCCTA
 1801 CCTGATAGTA TCAAAAAGGA AGATTCCTTA TTAATCTGTC AGACTATGTT
 1851 CCCCTGAAAA TCATGTTCCC TTTTATGACT GGAGGCATTA CTGCAGTTGG
1901 AAGCTCAATT CTTAATAAGT GAGTTCTGCT ACCTCTAAAT TCCATTGAAT
1951 TCTCAGATAT AAAGCAAAAT AATGACCTTA GAGAGAGATT CTCCCTTCAT
 2001 AAAAACAGTC TTAGAAATTG GTTTTATGAA TAGCCCTCTC CTGTCATTTG
 2051 TCCACAGCAT GGTGACATGT TGGCCTTGGT TTCTAGTAAA GACAATCGTG
 2101 GCCCCTTCCC CTTGAGAACT GGTAAGTTCT TATTTAGCTC TTCCTGGACT
 2151
      AATGAACTAG TGAGGAGCCT ATAAATATGT CCCACCAGTT TCATTTTGGC
 2201
      CATTGGAAAC CTCAATATTG ATTTTAAAGT GGAAATTATC TTGAAAACCA
 2251 TTTATTATTC ACTTACAGAT TCTTTCAGTT GTAGGAGAAT TCTTCATACT
 2301 TCCAGGTTTT GTATAAATTG TTCTGATTGT AACTTTCAGT TAGTTTTATG
 2351 GCTGTTTACA TGAGAAGCAA AACTGAAAAC ATCTGACCTT TCCATGACAA
 2401 TCTCAATTAT GGTATCTGGA TAATAACTTA CAGTTGGTAC AGAATTCTGA
       TACATGCTGT GACATACATG AACCTGGAAA TATTGTGCTA AGGAAAATAA
 2501
       GCCAGACGCC AAACAATATT GTAAGTTCAA ATTCTATGAG GTATCCAAAT
      TAGGAAATTC TTGAACACAG AAAATAAATT AGGAGGATCC TGGTGCTGGA
```

FEATURES: Start: 447 Stop: 1458

HOMOLOGOUS PROTEIN:

2601 AAAAAAAAA AAAAAAAA (SEQ ID NO:1)

Top BLAST Hits:

Score E qi|547920|sp|P35410|MRG HUMAN MAS-RELATED G PROTEIN-COUPLED REC... 174 1e-42

gi 6981186 ref NP_036889.1 MAS1 oncogene >gi 135921 sp P12526	170	2e-41
gi 4505105 ref NP 002368.1 MAS1 oncogene >gi 135920 sp P04201	167	2e-40
gi 6678804 ref NP 032578.1 MAS1 oncogene >gi 266505 sp P30554	163	3e-39
gi 2118485 pir S51001 transforming protein mas - mouse	163	3e-39
gi 134079 sp P23749 RTA RAT PROBABLE G PROTEIN-COUPLED RECEPTOR	142	6e~33
gi 4455061 gb AAD21055.1 (AF118265) orphan G protein-coupled r	89	7e-17
gi 4758070 ref NP 004769.1 G protein-coupled receptor 44 >gi 4	89	7e-17
gi 3023772 sp P79243 FML2 PANTR N-FORMYL PEPTIDE RECEPTOR-LIKE	84	2e-15
gi 6753528 ref NP 034092.1 chemoattractant receptor-homologous	83	3e~15
gi 3023793 sp P79237 FML2_PONPY N-FORMYL PEPTIDE RECEPTOR-LIKE	83	5e-15
gi 292035 gb AAA52474.1 (L14061) N-formyl peptide receptor-lik	82	9e-15
gi 3023767 sp(P79178 FML2_GORGO FMLP-RELATED RECEPTOR II (FMLP	82	9e-15
BLAST dbEST hit:		
	Score	Е
gi 2253096 gb AF003828.1 AF003828 AF003828 Human erythroleukemi	165	4e-38
EXPRESSION INFORMATION FOR MODULATORY USE:		
Expression information from BLAST dbEST hit:		
gi 2253096 gb AF003828.1 Human erythroleukemia		

 $\underline{\text{Tissue}}$ expression from PCR-based tissue screening panels: $\underline{\text{Human}}$ testis

- 1 MESKSSWVIE LEFLEMUSTI PVLOTELTPI NORREPTECYK OTLSFTGLTC 51 IVSLVALIGN AVVLHLICGK MERNAVSTII LINLVAADFLF LGGHITCSEL 101 RLINIRHPIS KILSPUMTFP YFIGLSMLSA ISTERCLSIL WPIWYHCRRP 151 RYLSSVMCVI, LWALSELERSI LEWHNCOPJF SCADSWOCKT SIPTITAHLV 101 FLCVULCSSI LVLLHVELGC SEKMELTRLY VTILLIVILVF LLCGLFFGIQ 251 WALESRIHLD WKVLFCHVHL VSIFLSALMS SANPITYFFV GSFDQONFG 301 NIKLVLORAL ODTBEVDEGG GWLPGFTLLL GSSRLEG (SEG ID NO:2)
- FEATURES:

Functional domains and key regions:

[1] PDOC00001 PS00001 ASN_GLYCOSYLATIONN-glycosylation site

```
279-282 NSSA
[2] PDOC00005 PS00005 PKC PHOSPHO_SITEProtein kinase C phosphorylation site
Number of matches: 3
1 133-135 TSR
2 221-223 SRK
3 292-294 SFR
[3] PDOC00006 PS00006 CK2 PHOSPHO_SITECasein kinase II phosphorylation site
Number of matches: 3
1 169-172 SILE
2 181-184 SGAD
3 333-336 SRLE
```

[4] PDOC00008 PS00008 MYRISTYLN-myristoylation site

Number of matches: 2

1 244-249 GLPFGI 2 248-253 GIQWAL

[5] PDOC00210 PS00237 G_PROTEIN_RECEP_F1_1G-protein coupled receptors family 1 signature

Membrane spanning structure and domains:

.х	Begin	End	Score	Certaint
1	41	61	1.775	Certain
2	75	95	1.059	Certain
3	112	132	1.947	Certain
4	151	171	1.380	Certain
5	193	213	2.255	Certain
6	229	249	2.322	Certain
7	261	281	1.221	Certain

BLAST Alignment to Top Hit: >qi|547920|sp|P35410|MRG HUMAN MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG >gi|320141|pir||A39485 transforming protein (mrg) - human >gi|244210|gb|AAB21255.1| (\$78653) mas product homolog modulating intracellular angiotensin II actions=mrg [human, Peptide, 378 aa] [Homo sapiens] Length = 378 Score = 174 bits (437), Expect = 1e-42 Identities = 104/275 (37%), Positives = 161/275 (57%), Gaps = 24/275 (8%) Ouerv: 51 IVSLVALTGNAVVLWLLGCRMRRNAVSIYILNLVAADFLFLS----GHIICSPLRLINIR 106 +VSL + N V WLL C N +YIL+LVAAD ++L G + + L Sbjct: 84 LVSLCGVLLNGTVFWLLCCGAT-NPYMVYILHLVAADVIYLCCSAVGFLQVTLLTYHGVV 142 Query: 107 HPISKILSPVMTFPYFIGLSMLSAISTERCLSILWPIWYHCRRPRYLSSVMCVLLWALSL 166 I L+ + F + + L +L AISTERC+ +L+PIWY C RP+Y S+V+C L+W L Sbjct: 143 FFIPDFLAILSPFSFEVCLCLLVAISTERCVCVLFPIWYRCHRPKYTSNVVCTLIWGLPF 202 Query: 167 LRSILEWMFCDFLFSGADSVWCETSD---FITIAWL--VFLCVVLCGSSLVLLVRILCGS 221 +1++ +F + W F+ ++ L L +V+C SSL LL+R LC S Sbjct: 203 CINIVKSLFLTY------WKHVKACVIFLKLSGLFHAILSLVMCVSSLTLLIRFLCCS 254 Query: 222 RKMPLTRLYVTILLTVLVFLLCGLPFGIQWALFSRIHLDWKVLFCHVHLVSIFLSALNSS 281 ++ TR+Y + ++ +FLL LP + + + D+K+ Sbjct: 255 QQQKATRVYAVVQISAPMFLLWALPLSV-----APLITDFKMFVTTSYLISLFL-IINSS 308 Query: 282 ANPITYFFVGSFRQRQNRQNLKLVLQRALQDTPEV 316 ANPIIYFFVGS R+++ +++L+++LORAL D PEV Sbjct: 309 ANPITYFFVGSLRKKRLKESLRVILQRALADKPEV 343 (SEQ ID NO:4)

Hmmer search results (Pfam):

Scores for sequence family classification (score includes all domains):					
Model	Description	Score	E-value	N	
PF00131	Metallothionein	382.6	3.9e-111	18	
PF00956	Nucleosome assembly protein (NAP)	27.6	9.6e-07	3	
CE00408	E00408 osteopontin	26.2	2e-06	3	
PF00183	Hsp90 protein	24.0	2.8e-05	3	
PF00037	4Fe-4S ferredoxins and related iron-sulfur c	20.9	7.2e-05	6	
PF01056	Myc amino-terminal region	19.5	6.3e-06	3	
PF00524	El Protein, N terminal domain	16.4	0.00089	4	
PF01448	ELM2 domain	13.5	0.012	3	
PF00428	60s Acidic ribosomal protein	12.5	0.0062	3	
PF00095	WAP-type (Whey Acidic Protein) 'four-disulfi	11.2	0.23	2	
PF01025	GrpE	8.2	0.28	2	
PF01437	Plexin repeat	6.4	1	3	
PF00057	Low-density lipoprotein receptor domain clas	6.2	2.7	6	
PF00007	Cystine-knot domain	5.9	1.4	5	
CE00299	CE00299 fibromodulin	5.2	1.3	2	
PF00020	TNFR/NGFR cysteine-rich region	4.3	8.9	1	
PF01258	Prokaryotic dksA/traR C4-type zinc finger	4.3	7	1	
PF00865	Osteopontin	2.7	3.3	1	
PF00913	Trypanosome variant surface glycoprotein	2.2	8.2	1	
CE00545	CE00545 progesteron receptor	1.7	1.8	2	
CE00412	E00412 BRCA1	1.7	5.1	1	
PF01216	Calsequestrin	0.8	9.2	1	
CE00038	CE00038 calcium_channel_L_type	-0.1	3.5	1	

		CAATGTCACT			
1				GAATATACAT	
51		ACTAGCTAAC			
101		ACTAGCTAAC		GTGCAGGATA	
151 201	CACCATTGTC	TAAATGTGAT			
251		ATCTCAATAG			
301				TCGACATAGA	
351		TAAAAGCCAT			
401		AAGTTGAAAA		GAGAACTGGA	
451	GATGCTACTT	TCACCACTTC	TATTCAACAT		GTTTTAGCCA
501		ACAAGAGAAA		GCACCCAAAT	
551		TGTCCCTGTT		ATGATTGTAT	ACCTAGAAAA
601		TCATCCAGAA			AAATTCAGTA
651		ATACAAACTA			ACTGCTATAC
701		ACCAAGCTGA			
751		AAAAAATACT	TAAGAATATT	CTTACCCAAG	
801		GGAAAACTAC		TGACATCATA	GATGACACAA
851	ACAAGTGGAA	ACACATCCCA	TGCTCATGGA	TGGGTAGAAT	CAATATTGTG
901	AAAATGACCA	TATTGCCAAA	AGCAATCTAC	AAGTTCAATG	CAATTCCCAC
951	CAAAATATCA	TCATCATTCT	TCACAGAACT	AGAAAAAAAC	AATTCTAAAA
1001	TTCATATGGA	ACAACAACCA	AAAAAAAAA	AAAAAACCCG	CATAGCCAAA
1051		GCAAAAAGAA			TACCCATCTT
1101		TACAAGGCTA			CACTGACATA
1151		CATAGACCAA			
1201		ATAGCCAACT		AAAGCAAACA	
1251		GACATTCTAG			TATTGGCAAG
1301		AAGAATGAAA		TGTCTCTCAC	TTAATACAAA
1351		AGATGGATCA			AAAACCATAA
1401		AGATAACATC			TCACTTAGGC
1451		TGGCCAAGAA			
1501		GACTTAATTA AGCAAACAGA		AGTGAGAGAA	
1551 1601	AACTAAGCAG		ACTAATATCC		AGGAACTCAA
1651	ACAAATCAGC		CAAACAATCC	CATGAAAGAG	TGGGCTAAGG
1701		ACAATTCTCA			
1751	GAAAAAATGC			GGAAATGTAA	
1801	TAATGCGATA		CCTGCAAGAA		TTAAAAATCT
1851			GGTCTGTGGT	GATAAAGGAA	CACTTTTACA
1901		GAATGTAAAC	TTGCGCAACC		ACAGTGTGGA
1951		GGAACTAAAA		CATTTGATCC	
2001	TTAAATATGT	ATAAATATAT	ATATTTATAT	ACCATGGAAT	ACAACTCAGC
2051	CATAAAAAAG	AATAAAATGA	TGACATTCAC	AGCAATCTAG	ATGGAATTGG
2101	AGACCCTTAT		GTAACTCAGG		CAAACATCAT
2151	ATGTTCTCAC		GGGCTAAGCT	GTGAGGACAC	GAAGGCATAG
2201		TGAACTCTGG		GGAAGGATGG	AAGAGAGGCG
2251		GACTACACAA		GTACACTGCT	CAGGTGATGG
2301		ATCTCAGAAA			CATGGAAGCA
2351		GTTCCCCAAA	TTAAAAAAGT		GAGTTTATAA
2401	ATGATTTAAT				TGGACAATGG
2451 2501	TAATGAAGTA GACTCTAGAT		GTGTAGCAAG CATACACTTC	TGGTAGCCTC	GGAAAGAAAG
2551	TATACACATG	AATATATCAC			CAAAAAATTG
2601	TGTCAGGCCA		TGAATGGTCC	CATGATCTAC	TTTTTCATTT
2651		CCTCATAATG			TGATGCCTAG
2701	GCCCATAATT		ATCAGGACAG		CAGGAAGTTG
2751		GACGTGATAG			ATATGGGACA
2801		ATCATCTCAG		TGTCTCAAAT	ACCTCTGGCC
2851	TCTGATTTGC		CATACAGGAA		TGTCCAGCAT
2901	CTTCGTAAGC	CTGGATTGCT	CACCAGCTTT	CATTTCAGCT	CCTGTAGGCA
2951	TCTCCTGAAT	TAAGCAACAC	AGAAAAGTCC	TCTGAAGTCA	CTGAATCCCA
3001	GAAAGGCTCT	CTACCTTTAG	CACAAGGGAG	GTCTTCACCA	CTGGACAAAG
3051	AAGGAACGAT	AAGGGTAAGT			ACAGTCAGTT
3101	ATGATTTTTG	CTGTAAGATC	ATGTCCTTAT	GCTTCCACCT	TGGTGCTACA

FIGURE 3, page 1 of 3

3151				AGACAGGAGA	
3201	CCTTTCAGAA	ACTGAGTGCT	GTCAACCCAA	ACTGTGTGAG	CTCTAAATGG
3251	TGTCCCCCCT	TCTAATTTAT	CTCCCCATAT	CACCTCCTTC	ATTCCAATCA
3301	TTCAATCTGC	CCTCATGGAG	AGACTGCTGC	CTCTTACATT	CATTTAACGA
3351	GCAAGGGGAC	ATGCAGGCAT	TTCTTCCCAG	AGTTGAACTG	CTATAGAGCC
3401	AGTTTCTTTG	TTTCACTTAC	TTTTCAAATT	TATTCTTCTT	TGCCTATCTG
3451	GAAAGGTCTA		AGATGGCCCA	ATAATTAAGG	AGTGTTTCAT
3501	GAGGAAAGTA	TTTACAAAGA		TAAGGGTCAG	GATCCTAAGC
3551	AGCAATACAT	AGGGGAGCAC		CCTAGGCTGA	
3601	GAAGGAGCAG			ATAGCTGTAG	CCATAAGGGT
3651	GGGAGAGCAT	GAGCAGGCAA		CCTGCGTGGC	CAACGCACAG
				TTCCCACCAA	
3701	CCACACAGGC	TGATATAGTT	TGGATCTGTG	CCTTGTGGGA	GATGATTATT
3751	TGATTGTAAT		GGAGGAAGGG		
3801	AGATCACGGG			TTAACACCAT	CCCCCTTTGG
3851	TATTGTTGTT		CGAGTTCTCA		TTGTTTAAAA
3901	GCGTGTAGCA		CTCTCTTACT	CCTGCTCTCA	
3951	CGCCTCGCTC	CCCCTTTGCC	TTTCACCAGG		TCCTGAGGCC
4001	TCCCCAGAAG		TATGCTTCTT	GTACAGTCTG	TAGAGCTATT
4051	AGCCAGTTAA		TTCATAAATT	TCCCAGTCTC	
4101	TTTTAGCAAT	TTGAGAATGA		AGACAGAGAG	
4151	GAAATCCCAA	GGTGCTTTCC			CTGGTGTCTC
4201	CCAGTGTCTC	AATTCCACCA	GAAACCAGAA	ATAAAAAGAA	TCCCACTGAT
4251	GTGGTACATA	GAAGCCACTC	TCTTGGGATG	TCAAACAGGA	TAAAGAAGAA
4301	TGGAAAGCAA	ATCCTCATGG	TAAATGAGAC	TATCCCTCTC	ACCTTCTTGT
4351	ATCCTCCTAA	TTCCTGGGGC	TTTCTCTATC	TGATTGATCC	CTGTCTCATT
4401	TCAGCTCTAT	CAGACTACTT	TAATGTTTGG	CTTGTCTTTC	TCTACTGTCA
4451				AAATGCATAG	AAAATAAAAT
4501	GTAATTTTAA	AAAGAACATA	TGTATTTTGT	TTAGAATATA	AGTTTGGCTG
4551	ATCTAATAAA	GACATGAAGA	AGAAATATCT	TAAACAAGAA	AGTATAGTTG
4601	TGCCTCTGGG	TCACTAGGTT	CTGAATCTAC	AGATTCAACA	
4651	GGAAACTTTT	CCAAAAATAA			TGTACTGAAC
4701	AGGTACAAAC		TTGTCATTAT	TTCTGAAAAA	
4751	ACAAGAACTT	ATATAGCATT	TGCATTTTGT	CAGTTATTCT	
4801		ATGTATCTGG	GAGAAAGTGC	ATAGAGTATA	
4851		AAATTGAGCA	TCTGCAGATT	TTGGTCTGTG	
4901		CCCTGTAAAT	ACACAAAAAT	GACACTCTTC	GAGATCTGAA
4951		CAAAGCATCA	TACATCAGAA	TTCCAAAAAT	TGCTGCTCCC
				GATCCTACAT	GGTTCCCAGC
5001 5051		TTCCAGTCTT		GACGAGGGGA	
5101			ATGAGCCAGG	ACTTGCTTCT	GTCACTTTTG
	TTGCTCCTTC				
5151	TGATTCTTCC		ACCTGCTCAT	GGGATGTCAT	CCAGCATCAA
5201			CTTGTGCTGC	TTGTACATTC	TCAGAAAGGT
5251		AAAAAGGAAA	TCTTGGGGCA		TCTTCAGCCC
5301			GCTCACATCA		GGAACTCCTC
5351			CAGAGAACAG		TCGTGCAGGA
5401	CTCCAGGGAC		TATTGGACCT	GCTCTTCATG	TTGTGAACCA
5451	GGAAAACCCT		AGGCCTTAGC	TTCATCTTAT	GTTATATGAG
5501	GATAATACCA			TCATAGCATG	TTAAACAACA
5551	TGCTAAATGT	TGGTGATACC	ACAGTGAAAA		GACTTACTCC
5601	TTACGGATCT			AAACATATCA	TACCATACCT
5651	ATAGATGGAC			TGTGGATAAC	
5701	CTTTTCCTCC	CATTTCCTTT	TTGGGCCAAT	CAGAGCTGTG	GCAGCTTGTC
5751	TCCCTAAGAG	AGCTCATGAT	GGATGCACTC	ACTCCTGATG	CTCCTCTATA
5801	CTCCCAGAGG	AGGATGCATC	TTCTTTCCAC	CTGGAGAGCT	CCTGCCCATG
5851	TGCATTCTTG		GCAAACGTGG	CCTCTGATAG	GCAAAAAAGA
5901	ACTCCTGAAT	TTGTTCCTAA	ATGGCACGCA	CTCACCTCTA	TTTTTCCCTT
5951	ATTTCATTTG	CTTCTCATTC	TCTATCTGGA	GTTTGTTTAG	GTTAATTTTT
6001	TTTTTCAGCC	CACAATTTTG	ACTGTCAACT	TGGATTTAAC	TTGAGAATCA
6051	CTCCTCTACT	TTACCCCCCT	CTAACATGTA	TAATCGACAC	ATAGTGGTGC
6101	TGGGTCCAAA	GGGCTGGTGA	AAAAATGGAT	CATGAGTCAG	CCCTGCTGGG
6151	CTCACATTCA	TACTATATAA	TATATAACCC	CCCGGACAAA	TAATATCCTC
6201	TCTTTATACT			ACAGGAATAA	TACTAATTTT
6251				AGGCAATACC	

FIGURE 3, page 2 of 3

6301	TCAATCAGCT	GCTGTTATTC	TCCCAAATTA	GACCTAATCC	TCATTCTCCA
6351	GTTGAAATTT	GCATGAATAT	CTCTCTTTAC	AACCCAAGCC	CTACACTTCT
6401	CCTATTTCCA	CTCATGGACT	CCTCTCATAC	AAATGTTTGC	ATCAACAAAG
6451	AAACGCTACC	AAAGATCTCC	CGAAAGAGAG	AATGAAATAG	GTTTACATTG
6501	TGTATACTCA	GCAGAACACT	TAGTAGTCCC	CCATACATAT	TCCCACACTT
6551	CAATTACCTG	CTGCAGTGGC	ACTCAGGCTC	ACCCTCACTT	ACTCTTTCCT
6601	CTGTTCTATT	GCTGAGCAAT	TCAGCTCAGA	CCCACACCCT	ACCCAAACAC
6651	TGTGTACAAA	ATGCTTCTAG	GGGTTCGGCA	AAGCCACACT	GAGTCCTTAT
6701	TTTAAAGGCA	CATCAGTGGT	CAATTTCAGG	TTTTGGGCAC	TCATCAATCA
6751	TTCTTCTCAA	CACAGATAGA	GCTGTCCACA	AATAGAATTC	TGATGAATGA
6801	AATTTTCTTC	ATCTAATTAT	ATGTGTGTGT	TCTAATGCCT	TACATTGTGC
6851	TTTCATTTTT	ATTTTCCATT	TCATCCAAAT	CTACCATTGC	CATTAGGCTT
6901	CTCATGCATG	CATTCCTTCA	TTGAATGAAC	GTTTATGAAA	
6951	GCTGCTTATG	GAATAGGCAC	TAGGAGTATA	AAATGTAAAA	TGTGGTCCTG
7001	TCTGCAATGA	CTGACACACT	GAGTTATTTC	TCACCCACCA	
7051	TTTTCACACA	TCCTAGCGAA	GATCCCATTT	TCCTCTGGTT	CATAATGCAT
7101	GATCTTTTTT	CCTGTCCAGA	GATGACCAGT	CCTGGTCATG	AGGGTGTCAC
7151	AACCACCTCT	TTGTGTATCT	GAATTCCTCC	ACCTGAGAGA	AAATTTCAGG
7201	CCCAGGATAG	AGTAATCATC	GGGTCCACAG	CACTGGCTAG	ATGAGTGGGG
7251	GTGTTTTGAT	CCTAATGTTA	TCCCCATGTC	AGCACAGAAC	TTGTGTGGCA
7301	GTAGAGAGAG	GTCAGGCTTC	AGAGTCAACA	AGAACTGGAT	TTCAAACTGG
7351	ATTTGAGGAC	CCCCACCTTT	TGATAGGTGA	CTTATTCTCT	GCGAGTCTCT
7401	GATCTCTCCT	CTTTAAATGA	GGACAGTAAA	TCCCACATGG	CAGGGTGGTG
7451	GGGAGAATCA	GAGATCAAAC	AGCTGGTGAT	CACATCTGGT	TTCTGTTTCC
7501	AGGGTCATCA	GACTGGGGTT	TCTGAGCATG	GATTCAACCA	TCCCAGTCTT
7551	GGGTACAGAA	CTGACACCAA	TCAACGGACG	TGAGGAGACT	CCTTGCTACA
7601	AGCAGACCCT	GAGCTTCACG	GGGCTGACGT	GCATCGTTTC	CCTTGTCGCG
7651	CTGACAGGAA	ACGCGGTTGT	GCTCTGGCTC	CTGGGCTGCC	GCATGCGCAG
7701	GAACGCTGTC	TCCATCTACA	TCCTCAACCT	GGTCGCGGCC	GACTTCCTCT
7751	TCCTTAGCGG	CCACATTATA	TGTTCGCCGT	TACGCCTCAT	CAATATCCGC
7801	CATCCCATCT	CCAAAATCCT	CAGTCCTGTG	ATGACCTTTC	CCTACTTTAT
7851	AGGCCTAAGC	ATGCTGAGCG	CCATCAGCAC	CGAGCGCTGC	CTGTCCATCC
7901	TGTGGCCCAT	CTGGTACCAC	TGCCGCCGCC	CCAGATACCT	GTCATCGGTC
7951	ATGTGTGTCC	TGCTCTGGGC	CCTGTCCCTG	CTGCGGAGTA	TCCTGGAGTG
8001	GATGTTCTGT	GACTTCCTGT	TTAGTGGTGC	TGATTCTGTT	TGGTGTGAAA
8051	CGTCAGATTT	CATTACAATC	GCGTGGCTGG	TTTTTTTATG	TGTGGTTCTC
8101	TGTGGGTCCA	GCCTGGTCCT	GCTGGTCAGG	ATTCTCTGTG	GATCCCGGAA
8151	GATGCCGCTG	ACCAGGCTGT	ACGTGACCAT	CCTCCTCACA	GTGCTGGTCT
8201	TCCTCCTCTG	TGGCCTGCCC	TTTGGCATTC	AGTGGGCCCT	GTTTTCCAGG
8251	ATCCACCTGG	ATTGGAAAGT	CTTATTTTGT	CATGTGCATC	TAGTTTCCAT
8301	TTTCCTGTCC	GCTCTTAACA	GCAGTGCCAA	CCCCATCATT	TACTTCTTCG
8351	TGGGCTCCTT	TAGGCAGCGT	CAAAATAGGC	AGAACCTGAA	GCTGGTTCTC
8401	CAGAGGGCTC	TGCAGGACAC	GCCTGAGGTG	GATGAAGGTG	GAGGGTGGCT
8451	TCCTCAGGAA	ACCCTGGAGC	TGTCGGGAAG	CAGATTGGAG	CAGTGAGGAA
8501	GAACCTCTGC	CCTGTCAGAC	AGGACTTTGA	GAGCAATGCT	GCCCTGCCAC
8551	CCTTGACAAT	TATATGCATT	TTTCTTAGCC	TTCTGCCTCA	GAAATGTCTC
8601	AGGGTCCCCA	AGGCCCTTAC	CA (SEQ II	NO:3)	

Features:

Start: 4300 Exon: 4300-4319 Intron: 4320-7502

Intron: 4320-7502 Exon: 7503-8496 Stop: 8494

Chromosome Map Position:

Chromosome 3